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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-----------------|-------------------------|-------------------------|------------------|--|
| 10/009,700 | 10/25/2001 | Stephen John McLoughlin | 01 USN 152 | 1352 | |
| 27645 75 | 90 05/18/2004 | ! | EXAMINER | | |
| | AW & ENGINEERIN | WONG, ALBERT KANG | | | |
| 505 CUMBERLAND ROAD TYLER, TX 75703-9324 | | | ART UNIT | PAPER NUMBER | |
| | | | 2635 | | |
| | | | DATE MAILED: 05/18/2004 | 29 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Applicatio | n No. | pplicant(s) | | | | |
|---|--|-------------------|---|--------------------------|---------|--|--|--|
| Office Ac | tion Cummon. | 10/009,700 | 0 | MCLOUGHLIN, STEPHEN JOHN | | | | |
| Office Action Summary | | Examiner | | Art Unit | | | | |
| | | Albert KW | | 2635 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | | |
| Status | | | | | | | | |
| 1) Responsive to | communication(s) filed on 25 | October 2001 | | | | | | |
| 2a) This action is F | | nis action is no | - | | | | | |
| 3) Since this appli | / | | | | | | | |
| closed in accor | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposition of Claims | | | | | | | | |
| 4)⊠ Claim(s) <u>1-20</u> is | s/are pending in the applicatio | on. | | | | | | |
| 4a) Of the above | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5)☐ Claim(s) | Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ Claim(s) <u>1-7, 1</u> | Claim(s) 1-7, 10, 12, and 16-20 is/are rejected. | | | | | | | |
| 7)⊠ Claim(s) <u>8,9,11</u> | Claim(s) <u>8,9,11 and 13-15</u> is/are objected to. | | | | | | | |
| 8) Claim(s) | are subject to restriction and/ | or election re | quirement. | | | | | |
| Application Papers | | | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | | | |
| 10)⊠ The drawing(s) | 10)⊠ The drawing(s) filed on <u>25 October 2001</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner. | | | | | | | |
| Applicant may no | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| Replacement dra | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11)☐ The oath or dec | laration is objected to by the E | Examiner. Not | te the attached Office | Action or form P | ΓΟ-152. | | | |
| Priority under 35 U.S.C. | § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| See the attached | detailed Office action fol a lis | st of the Certifi | eu copies noi receive | su. | | | | |
| 1) Notice of References Cit | | | 4) Interview Summary | | | | | |
| | Patent Drawing Review (PTO-948) tatement(s) (PTO-1449 or PTO/SB/08 | | Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | | D-152) | | | |

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1. This Office action is in response to the application filed October 25, 2001. Claims 1-20 are pending.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-6, 10, 12, and 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Engelder.

Regarding claim 1, the claimed down hole member is shown as Figure 1, item 38. The claimed means for rotation is taught in col. 4, lines 20-22; and the claimed means for control, monitoring, and decoding are taught in col. 4, lines 1-12.

Regarding claim 2, see col. 2, lines 8-12.

Regarding claims 3-4, see col. 5, lines 31-33.

Regarding claim 5, see col. 5, lines 28-32.

Regarding claim 6, see col. 2, lines 13-17.

Regarding claim 10, see col. 6, lines 59-63.

Regarding claim 12, the claimed device is shown in Figure 1 as item 38. It is attached to the drill string and emits a signal. The sensor means is described as a magnetometer that senses rotation of the magnetic field of the Earth. The sensor outputs a time based signal to determine the encoded signal. The rotation signal is used to actuate a downhole mechanism.

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Regarding claim 16-20, these claims are the method equivalent of claims 1-5. The teaching of the apparatus includes the teaching of the method of operating the apparatus in its intended manner. The apparatus in Engelder is used in the same way as that claimed.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Engelder.

Regarding claim 7, Engelder teaches the monitoring of rotation over time. It would have been obvious to count the number of rotations to determine the number of rotations over a particular time period.

- 6. Claims 8-9, 11, and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art is considered relevant because they teach various within the field of rotational communication in a borehole. Applicant is encouraged to consider these references in preparing a response.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert K Wong whose telephone number is 703-305-8884. The examiner can normally be reached on M-Th.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on 703-305-4704. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Albert K. Wong

May 12, 2004

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